

Guide for authors

Online submission to the journal prior to acceptance

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Types of submissions

Contribution – Full length original research article of more than 10 pages.

Note – A short self-contained original research article of 10 pages or less, focusing on a particular result that does not provide enough material for a full length Contribution.

Communication – A short article outlining a new result or new research that can later be expanded to a full length Contribution. Please note that Communications should be sent directly to a member of the Editorial Board chosen by the author. The Editor will then conduct a review of the paper, ask the author for any necessary revisions, and will “communicate” the final paper to the Editorial Office.

Erratum – Concise correction to article of the same author published in the journal. ScienceDirect will provide a link to the Erratum in the original article.

Perspectives – Submission which does not provide a specific new research finding or result, but rather presents a survey of or new approach or viewpoint on results and research in a particular area.

Mathematical Software Section – Publishes papers in the area of discrete applied mathematics which contain applications to mathematical software. Please see below for further information.

Preparation of text

It is essential to give a fax number and e-mail address when submitting a manuscript. Articles must be written in standard English.

Language polishing. For language editing services, please see <http://www.elsevier.com/wps/find/authorhome.authors/languagepolishing>

LaTeX documents. If the LaTeX file is suitable, proofs will be produced without rekeying the text. The article should preferably be written using Elsevier’s document class “elsart”, or alternatively the standard document class “article”.

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Provide the following data on the title page (in the order given).

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Author names and affiliations. Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the Authors’ affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the Author’s name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name, and, if available, the e-mail address of each Author.

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Abstract. A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separate from the article, so it must be able to stand alone.

Keywords. Please add 2 to 5 keywords to your article. Keywords assigned to articles will be assembled in a keyword index which will be printed in the last issue of each volume for each journal, and in cumulative indexes, as well as used to make your article more widely available through online keyword searches. Please use the following guidelines in choosing keywords for your article.

- Each keyword (which can be a phrase of more than one word) should describe one single concept. Words like “and” or “of” should be avoided.
- Avoid very general keywords which become meaningless once in a keyword list, e.g. “graph”, “computer”, “mathematics”, “optimization”, etc.
- Check whether the keywords describe the outline of the article on the whole.
- Use natural language: for instance “automatic error recovery” rather than “error recovery, automatic”.
- Try to use nouns and adjectives as much as possible (i.e. use “automatic error recovery” rather than “recovering errors automatically”). Do not use nouns in the plural form.
- Avoid the use of abbreviations as much as possible, unless an abbreviation is so well-established that the full term is rarely used (e.g. use “laser” instead of “Light Amplification by Stimulated Emission of Radiation”, but use “computer aided design” instead of “CAD”).

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References. Responsibility for the accuracy of bibliographic citations lies entirely with the Authors.

Text: Indicate references by number(s) in square brackets in line with the text. The actual Authors can be referred to, but the reference number(s) must always be given.

Example: “..... as demonstrated [3,6]. Barnaby and Jones [8] obtained a different result”

List: The list of references is arranged alphabetically and then numbered (numbers in square brackets).

Examples:

Reference to a journal publication:

- [1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2000) 51–59.

Reference to a book:

- [2] W. Strunk Jr., E.B. White, *The Elements of Style*, third ed., Macmillan, New York, 1979.

Reference to a chapter in an edited book:

- [3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 1999, pp. 281–304.

Preparation of electronic illustrations

General points

- Make sure you use uniform lettering and sizing of your original artwork.
- Save text in illustrations as “graphics” or enclose the font.
- Only use the following fonts in your illustrations: Arial, Courier, Helvetica, Times, Symbol.
- Number the illustrations according to their sequence in the text.

- Use a logical naming convention for your artwork files.
- Provide all illustrations as separate files and as hardcopy printouts on separate sheets.
- Provide captions to illustrations separately.
- Produce images near to the desired size of the printed version.

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Mathematical Software Section

The section will consider papers falling in the same areas as *Discrete Applied Mathematics*, and will essentially publish three kinds of contributions:

1. Regular papers, processed and accepted for their mathematical novelty, for which, in addition, the authors give and describe the corresponding computer code(s).
2. Papers presenting significant implementations of algorithms from the literature, provided they are of particular interest to the scientific community. Criteria for acceptance of this kind of contribution will be: high efficiency, proved through extensive computational experiments, significantly improving that of the best existing codes; novelty of the software, when no other code for the same problem is available to the public domain.
3. Papers presenting comparative studies on relevant existing software.

Only source files are considered. The codes must be clean, well documented and self contained. Use of machine dependent constants and functions should be avoided or, when needed, clearly stated. Each code must contain a main procedure which receives all the input data and yields all the output data as parameters.

Such a procedure must begin with a comments section providing:

- clear description of the domain of applicability
- meaning of each input and/or output parameter
- list of machine dependent constants and functions
- list of the procedures composing the code
- type of structure of all the parameters
- rules for the arrays dimensioning
- meaning of the main interval variables

Indentation is recommended whenever appropriate.

Each code must be accompanied by a driver program which:

- defines the input data for one or more sample instances through assignment or input statements (in the latter case, the contents of the input records must be explicitly listed)
- calls the main procedure of the code
- prints out the results on a standard unit. (The comments section of the driver program must provide the expected output.)

The codes will be available via a library managed by Elsevier through a Web-server at <http://www.elsevier.com/locate/dam>, under the link for “Electronic Annexes for this Journal”. Codes will also be linked to the electronic version of the paper available through Science Direct.

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